FODM D	TO 1/2	IIS D	epartment of	Atty. Docket:	In Re Applicat	ion No :	
Commerce			0492479-0033	10/762,965			
(REV. 8-83) MAR 2 9 2004 Patent and Trademark Office			and Trademark Office	Applicant: Xudong, Huang			
INFORMATION DISCLOSURE STATEMENT			Filing Date: Group:				
(Use several sheets if necessary)			January 22, 2004	ii . c/	7		
,,,					1618		
U.S. PAT	ENT D	OCUMENTS					
Examiner Initials	's	U.S. Patent No.	Applicant	Issue Date	Class	Subclass	
U.S. PAT	ENT A	PPLICATIONS					
Examiner Initials:	's	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:	
			,				
FOREIG	N PAT	ENT DOCUMENT	'S				
Examiner	's	Document No.	Country	Date	Translation		
Initials	_				Yes	No	
OTHER	DOCU	MENTS					
Examiner' Initials	's	Citation (Including	Author, Title, Date, Per	tinent Pages, Etc.)			
TO	-)	Arnold, F., "Metal Bio/Technology, 9	-Affinity Separations: A 151-156. / Ylar ro	New Dimension in Prote Favarlable)	in Processing",		
	✓	Atwood, et al., "Ro Disease", Pages 30	ple of Free Radicals and 1 19-364 (1999)	Metal Ions in the Pathogo	enesis of Alzhei	mer's	
			Atwood, et al., "Dramatic Aggregation of Alzheimer Aβ by Cu(II) Is Induced by Conditions Representing Physiological Acidosis", The Journal of Biological Chemistry, 273(21): 12817-				
			MR Evaluation of Age-Roes", Magnetic Resonance			dult and	
			Linetic Studies of Dioxyg Lond. B, 311: 473-482, 1		Their Metal Con	mplexes",	
		Biewenga, et al., "315-331, 1997.	The Pharmacology of the	Antioxidant Lipoic Acid	d", Gen. Pharma	ac. 29 (3):	
	-	Brewer, et al., "Survival and Growth of Hippocampal Neurons in Defined Medium at Low Density: Advantages of a Sandwich Culture Technique or Low Oxygen", Brain Research, 494: 65-74, 1989.					
	Brookmeyer, et al., "Projections of Alzheimer's Disease in the United States and the Public Health Impact of Delaying Disease Onset", American Journal of Public Health, 88(9): 1337-1342, 1998.						
Re		Burns, et al., "The	Specificity of the Stainin	g of Amyloid Deposits v	vith Thioflavine	T", J.	

Dones

10/9/06

FORM PTO-14	U.S. Department of Commerce	Atty. Docket: 0492479-0033	In Re Application No.: 10/762,965	
(REV. 8-83)	Commerce Patent and Trademark Office	Applicant: Xudong, Huang		
INFORMATION DISCLESSURE STATEMENT (Use several theets if necessary)		Filing Date: January 22, 2004	Group:	
18	Path. Bact. 94: 337-344, 1967.			
	Bush, et al., "Modulation of Aß Adhesivened Journal of Biological Chemistry, 269(16): 1		eavage by Zinc", The	
	Bush, et al., "Rapid Induction of Alzheimer 1464-1467, 1994.	Aβ Amyloid Formation	by Zinc", Science, 265,	
	Caravan, et al., "Gadolinium(III) Chelates a Applications", Chem, Rev, 99: 2293-2352,		Structure, Dynamics, and	
	Carter, et al., "A Model for Structure-Dependent of Amyloid Fibrils", Neurobiology of Aging, 1	•	Red to Alzheimer β-	
	Cerniglia, et al., "Metabolism of Benzidine Monkey and Rat Intestinal Bacteria", <i>Bioch</i> 107(4): 1224-1229, 1982.		· · ·	
	Cerniglia, et al., "Metabolism of Azo Dyes Derived from Benzidine, 3,3'-Dimethyl-Benzidine and 3,3'-Dimethoxybenzidine to Potentially Carcinogenic Aromatic Amines by Intestinal Bacteria", Carcinogenesis, 3(11): 1255-1260, 1982.			
	Cherny, et al., "Aqueous Dissolution of Alz Biometal Depletion", The Journal of Biolog			
	Cherny, et al., "Treatment with a Copper-Zinc Chelator Markedly and Rapidly Inhibits β-Amyloid Accumulation in Alzheimer's Disease Transgenic Mice", Neuron, 30: 665-676, 2001.			
	Connor, et al., "Regional Distribution of Iro Aging and Alzheimer's Disease", Journal of	•		
	1	Cornett, et al., "Imbalances of Trace Elements Related to Oxidative Damage in Alzheimer's Disease Brain", NeuroToxicology, 19(3): 339-346, 1998.		
	Cuajungco, et al., "Evidence that the β-Amyloid Plaques of Alzheimer's Disease Represent the Redox-Silencing and Entombment of Aβ by Zinc", <i>The Journal of Biological Chemistry</i> , 275 (26): 19439-19442, 2000.			
	Deibel, et al., "Copper, Iron, and Zinc Imbalances in Severely Degenerated Brain Regions in Alzheimer's Disease: Possible Relation to Oxidative Stress", Journal of the Neurological Sciences, 143: 137-142, 1996.			
	Del Corso, et al., "Blood Zinc, Copper and 277, 2000.	Magnesium in Aging", I	Panminerva Med., 42: 273-	
	Dezutter, et al., "99mTc-MAMA-Chrysamine Alzheimer's Disease", European Journal of			
	Drayer, et al., "MRI of Brain Iron", AJR, 14	7 : 103-110, 1986.		
	Ernst, et al., "Cognitive Function and the Co	osts of Alzheimer Diseas	se", Arch Neurol., 54: 687-	
P	Evans, et al., "Prevalence of Alzheimer's D Persons", <i>JAMA</i> , 262 (18): 2551-2556, 1989		Population of Older	

Dones replace

FORM PTO-14	U.S. Department of Commerce atent and Trademark Office	Atty. Docket: 0492479-0033	In Re Application No.: 10/762,965
(REV. 8-83)	atent and Trademark Office	Applicant: Xudong, H	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Filing Date: January 22, 2004	Group:
	Farr, et al., "The Antioxidants α-Lipoic Aci Impairment and Brain Oxidative Stress in A 84: 1173-1183, 2003.	, ,	- 1
	Fonte, et al., "The Severity of Cortical Alzh with Increased Amyloid-\(\beta\) Levels: Resolubi Chelators", Journal of Alzheimer's Disease,	lization of Amyloid-β w	
	Friman, et al., "Amyloidosis", Current Opin	nion in Rheumatolgy, 8:	62-71, 1996.
	Fritz, et al., "Synthesis and Biological Evaluation Diaminopropanoate: A Potential Replacement 592-598, 1982.	lation of Tc-99m N,N'-Hent for [131]o-Iodohippur	Bis(Mercaptoacetyl)-2,3-rate", J. Nucl. Med. 23:
	Gabbita, et al., "Increased Nuclear DNA Ox Journal of Neurochemistry, 71(5): 2034-204		Alzheimer's Disease",
	Guntern, et al., "An Improved Thioflavine S Senile Plaques in Alzheimer's Disease", Exp		, <u> </u>
	Gutteridge, et al., "Copper Salt-Dependent Hydroxyl Radical Formation", Biochimica et Biophysica Acts, 759: 38-41, 1983.		
	Han, et al., "Quantitation of Hydrogen Peroxide Using Tris(2-Carboxyethyl)Phosphine", Analytical Biochemistry, 234: 107-109, 1996.		
	Hilbich, et al., "Substitutions of Hydrophob Alzheimer's Disease βA4 Peptides", J. Mol.		
	Huang, et al., "Cu(II) Potentiation of Alzhei Chemistry, 274(52): 37111-37116, 1999.	mer Aβ Neurotoxicity",	The Journal of Biological
	Huang, et al., "The Aβ Peptide of Alzheime Through Metal Ion Reduction", Biochemistr	r's Disease Directly Proc y, 38(24): 7609-7616, 1	duces Hydrogen Peroxide 999.
	Huang, et al., "Zinc-Induced Alzheimer's A Conformational Factors", The Journal of Bio		
	Hüber, et al., "Fluorescently Detectable Magnetic Resonance Imaging Agents", Bioconjugate Chem., 9: 242-249, 1998.		
	Ida, et al., "Analysis of Heterogeneous βA4 by a Newly Developed Sensitive Western B 271(37): 22906-22914, 1996.		
	Johnson, et al., "Synthesis of a Ligand Based 2(1H)-Pyridinone Ring System and Thermodinorg. Chem. 39: 2652-2660, 2000.		
	Katzman, et al., "Education and the Prevaler Neurology, 43: 13-20, 1993.	nce of Dementia and Alz	heimer's Disease",
6)	Kelenyi, G., "On the Histochemistry of Azo Histochemistry and Cytochemistry, 15(3): 17		yes" The Journal of

Dones

49/06

FORM PTO-14	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket: 0492479-0033	In Re Application No.: 10/762,965	
(REV. 8-83)	atent and Trademark Office	Applicant: Xudong, H	uang	
INFORMATIC	N DISCLOSURE STATEMENT rai sheets if necessary)	Filing Date: January 22, 2004	Group:	
NO	Kelly, J., "The Environmental Dependency Amyloid Diseases", Proc. Natl. Acad. Sci.		-	
	Kelly, J., "The Environmental Dependency Amyloid Diseases", <i>Proc. Natl. Acad. Sci.</i> ,		•	
	Klunk, et al., "Development of Small Moled Alzheimer's Disease", Neurobiology of Agi			
	Klunk, W., "Biological Markers of Alzheim 147, 1998.	ner's Disease", Neurobio	logy of Aging, 19(2): 145-	
	Klunk, et al., "Uncharged Thioflavin-T Der Affinity and Readily Enter the Brain", Life	▼		
	Koh, et al., "β-Amyloid Protein Increases th Excitotoxic Damage", Brain Research, 533	_	red Cortical Neurons to	
	Konings, et al., "Gadolinium Complexation by a New DTPA-Amide Ligand. Amid Oxygen Coordination", <i>Inorg. Chem.</i> 29: 1488-1491, 1990.			
	Kuhn, W., "NMR Microscopy – Fundamentals, Limits and Possible Applications", Angew. Chem. Int. Ed. Engl., 29: 1-19, 1990.			
	Landers, et al., "Determination of Serum Copper and Iron in a Single Small Sample", 29: 590-592, 1958.			
	Levine, "Quantification of β-Sheet Amyloid <i>Enzymology</i> , 309 : 274-284, 1999.	I Fibrill Structures with	Thioflavin T", Methods in	
	Loeffler, et al., "Increased Regional Brain Concentrations of Ceruloplasmin in Neurodegenerative Disorders", <i>Brain Research</i> , 738 : 265-274, 1996.			
•	Lovell, et al., "Copper, Iron and Zinc in Alz Neurological Sciences, 158: 47-52, 1998.	theimer's Disease Senile	Plaques", Journal of the	
	Magerstadt, et al., "Gd(DOTA): An Alterna NMR Imaging or Spectroscopy", Magnetic			
J	Mann, et al., "The Neuropathology of Alzhe Aetiological and Therapeutic Consideration 213-255, 1985.			
	Markesbery, W., "Oxidative Stress Hypothe & Medicine, 23(1): 134-147, 1997.	esis in Alzheimer's Disea	ase", Free Radical Biology	
	Martins, et al., "Increased Cerebral Glucose Alzheimer's Disease May Reflect Oxidative 1045, 1986.	Stress", Journal of New	rochemistry, 46: 1042-	
	Masters, et al., "Amyloid Plaque Core Prote Proc. Natl, Acad. Sci. USA, 82: 4245-4249,		and Down Syndrome",	
10)	Meyer, et al., "Advances in Macrocyclic Ga Imaging Contrasts Agents", <i>Invest. Radiol.</i> 2		Magnetic Resonance	

Done

6/9/06

FORM PTO-144	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket: 0492479-0033	In Re Application No.: 10/762,965	
(REV. 8-83)	atent and Trademark Office	Applicant: Xudong, H	uang	
	LDISCOSURE STATEMENT	Filing Date:	Group:	
	ral sheets if necessary)	January 22, 2004	1618	
	McKhann, et al., "Clinical Diagnosis of Alz Work Group under the Auspices of Departn Alzheimer's Disease", Neurology, 34: 939-	nent of Health and Huma		
\ /	Merlini, et al., "Interaction of the Anthracyon Fibrils: Inhibition of Amyloidogenesis", Pro			
	Mirra, et al., "Neuropathologic Assessment S16, 1997.	of Alzheimer's Disease	", Neurology, 49 (3): S14-	
	Moats, et al., "A "Smart" Magnetic Resonat Enzymatic Activity", Angew Chem. Int. Ed.			
	Moini, et al., "Antioxidant and Prooxidant Acid", Toxicology and Applied Pharmacology	•	eid and Dihyddrolipoic	
	Morgan, et al., ""Summary of the National Environ Health Perspect, 102(2): 63-78, 19	U . U	nzidine Dye Initiative",	
	Packer, et al., "Alpha-Lipoic Acid as a Biological Antioxidant", Free Radical Biology & Medicine, 19(2): 227-250, 1995.			
	Pappolla, et al., "Immunohistochemical Evidence of Antioxidant Stress in Alzheimer's Disease", American Journal of Pathology, 140(3): 621-628, 1992.			
	Rogers, et al., "Translation of the Alzheimer Amyloid Precursor Protein mRNA is Up- Regulated by Interleukin-1 Through 5'-Untranslated Region Sequences", <i>The Journal of Biological Chemistry</i> , 274 (10): 6421-6431, 1999.			
	Rogers, et al., "Alzheimer's Disease Drug I 5'Untranslated Region", Journal of Molecul			
	Rogers, et al., "An Iron-Responsive Element Type II in the 5'-Untranslated Region of the Alzheimer's Amyloid Precursor Protein Transcript", <i>The Journal of Biological Chemistry</i> , 277(47): 45518-45528, 2002.			
	Sayre, et al., "In Situ Oxidative Catalysis by Neurofibrillary Tangles and Senile Plaques in Alzheimer's Disease: A Central Role for Bound Transition Metals", Journal of Neurochemistry, 74: 270-279, 2000.			
	Shi, et al., "Antitumor Benzothiazoles. 3. Shi, "Antitumor Benzothiazoles. 3. Shi, et al., "Antitumor Benzothia			
	Skovronsky, et al., "In Vivo Detection of An Disease", PNAS, 97(13): 7609-7614, 2000.	myloid Plaques in a Mou	use Model of Alzheimer's	
	Smith, et al., "Iron Accumulation in Alzheir Radicals", Proc. Natl. Acad. Sci. USA, 94: 9		of Redox-Generated Free	
	Tubis, et al., "The Preparation and Use of R Amyloidosis", Journal of the American Pha			
K	Tubis, et al., "The Use of Radioiodinated Co 38. (war not available)	ongo Red in the Study of	f Amyloidosis", Pages 25-	

w 6/9/

6/9/86

FORM PTO-14	Commerce	Atty. Docket: 0492479-0033	In Re Application No.: 10/762,965	
(REV. 8-83)	Patent and Trademark Office	Applicant: Xudong, Huang		
INFORMATIO	N DISCE STATEMENT	Filing Date:	Group:	
INFORMATION DISCLE SURE STATEMENT (Use several sheets if necessary)		January 22, 2004	1618	
M	Van Leeuwen, et al., "Frameshift Mutants of Alzheimer's and Down :Patients", Science,	•	Protein and Ubiquitin-B in	
	Yankner, et al., "Neurotrophic and Neuroto Tachykinin Neuropeptides", Science, 250: 2		3 Protein: Reversal by	
	Zhen, et al., "Synthesis and Amyloid Bindin Progress Toward a Reagent for SPECT Ima 42: 2805-2815, 1999.		•	
70)	Zhuang, et al., "Radioiodinated Styrylbenze Aggregates", J. Med. Chem. 44: 1905-1914		Probes for Amyloid	
EXAMINER	76 100	DATE CONSID	DERED (1986	
	itial if citation considered, whether or not cita f not in conformance and not considered. Inc			

				T	
FORM PTO-1449 U.S.		epartment of	Atty. Docket:	In Re Application No.:	
	Comm	nerce	0492479-0033	10/762,965	
(REV. 8-83) Patent and Trademark Office		Applicant: Xudong HUANG			
			Filing Date:	Group:	
INFORMATION DISCLOSURE STATEMENT		January 22, 2004	1 . 16	1618	
(Use several sheets if necessary)			1	810	
U.S. PATENT D	OCUMENTS		Ç-	27	
Examiner's	U.S. Patent No.	Applicant OIPE	Issue Date	Class	Subclass
Initials					
		MAR 0 9 2005			
U.S. PATENT A	PPLICATIONS	EST.			
Examiner's Initials:	Serial Number:	Applicant: RADENA	Publication Date:	Group:	Art Unit:
FOREIGN PAT	ENT DOCUMENT	rs	-		
Examiner's	Document No. Country	Country	Date	Translation	
Initials				Yes	No
OTHER DOCU	MENTS				
Examiner's Initials	Citation (Includin	g Author, Title, Date, Per	tinent Pages, Etc.)		
19	A. Dedeoglu et al., "Preliminary Studies of Novel Functional Metal Chelator Targeting Alzheimer's amyloidogenesis", Exp. Gerontol., 2004, 39: 1641-1649				
EXAMINER ^t		mos	DATE CONSI	DERED (1900
		idered, whether or not cit se and not considered. In			

FORM PTO-1449

(REV. 8-83)

49 V.S. Department of FEB 0 9 7005 prommerce

atent and Trademark Office

Atty. Docket: 0492479-0033

In Re Application No.: 10/762,965

Applicant: Xudong HUANG

Filing Date:

January 22, 2004

Group: | (() () ()

U.S. PATENT DOCUMENTS

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Illitials	* 4 424 151	Down of all	F-1 28 1084	424	1.1
-91	* 4,434,151	Byrne et al.	February 28, 1984		
	* 4,444,690	Fritzberg	April 24, 1984	260	429
	* 4,670,545	Fritzberg et al.	June 2, 1987	534	14
	* 4,673,562	Davison et al.	June 16, 1987	424	1.1
	* 4,687,659	Quay	August 18, 1987	424	9
	* 4,708,716	Sibalis	November 24, 1987	604	20
	* 4,885,363	Tweedle	December 5, 1989	540	465
	* 4,897,255	Fritzberg et al.	January 30, 1990	424	1.1
	* 4,933,156	Quay et al	June 12, 1990	424	1.1
	* 4,965,392	Fritzberg et al.	October 23, 1990	558	254
	* 4,980,147	Fritzberg et al.	December 25, 1990	424	1.1
	* 4,988,496	Srinivasan et al.	January 29, 1991	424	1.1
	* 5,008,099	Quay et al.	April 16, 1991	424	1.1
	* 5,021,556	Srinivasan et al.,	June 4, 1991	534	10
,	* 5,039,511	Quay et al.	August 13, 1991	424	1.1
	* 5,075,099	Srinivasan et al.	December 24, 1991	424	1.1
	* 5,087,440	Cacheris et al.	February 11, 1992	424	9
	* 5,155,215	Ranney	October 13, 1992	534	16
	* 5,188,816	Sherry et al.	February 23, 1993	424	9
	* 5,219,553	Kraft et al.	June 15, 1993	424	9
	* 5,262,532	Tweedle et al.	November 16, 1993	540	145
	* 5,277,895	Platzek et al.	January 11, 1994	424	9
	* 5,358,704	Desreux et al.	October 25, 1994	424	9
	* 5,372,579	Sibalis	December 13, 1994	604	20
	* 5,410,043	Platzek et al.	April 25, 1995	540	465
	* 5,559,214	Delecki et al.	September 24, 1996	534	10
14	* 6,114,175	Klunk et al.	September 5, 2000	436	63
NO.	* 6,133,259	Klunk et al.	October 17, 2000	514	230.5

794579v1

Page 1 of 3

49/06

FORM PTO-1449 U.S. Department of Commerce		Atty. Docket: 0492479-0033	In Re Applica 10/762,965	ation No.:	
(REV. 8-83) Patent and Trademark Offi		and Trademark Office		cant: Xudong HUANG	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Filing Date: January 22, 2004	Group:	8	
* 6,150,376 Kozikowski		November 21, 2000	514	299	
TO Y	* 6,168,776	Klunk et al.	January 2, 2001	424	1.11
	* 6,323,218	Bush et al	November 27, 2001	514	311
U.S. PATENT A	PPLICATIONS			!	·
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:
FOREIGN PAT	ENT DOCUMENT	rs			
Examiner's	Document No.	Country	Date	Translation	
Initials				Yes	No
ROY	WO 94/08624	International	April 28, 1994		1
	WO 94/08629	International	April 28, 1994		V
	WO 94/09056	International	April 28, 1994		✓
•	WO 94/12216	International	June 9, 1994		✓
	WO 94/13327	International	June 23, 1994		✓
	WO 94/29333	International	December 22, 1994		1
	WO 95/26754	International	October 12, 1995		✓
	WO 97/41856	International	November 13, 1997		1
	WO 02/28441	International	April 11, 2002		1
	WO 02/085903	International	October 31, 2002		1
R	EP 0 681 844	European	November 15, 1995		1
OTHER DOCU	MENTS				
Examiner's Initials	Citation (Including	g Author, Title, Date, Per	tinent Pages, Etc.)		
	Bacskai et al., "Imaging amyloid-beta deposits in vivo", Journal of Cerebral Blood Flow and Metabolism, 2002, 22(9)" 1035-1041				
		olecular targeting of Alzl e imaging", Neurobiolog			nhanced
Wang et al., "Synthesis and Evaluation of 2-(3'-iodo-4'-aminophenyl)-6-hydrobenzothia for in vivo quantitation of amyloid deposits in Alzheimer's disease", J. Mol. Neurosc., 2019(1-2): 11-16					
Wang et al., "Synthesis and 11C-Labeling of (E,E)-1(3',4'-dihydroxystyryl)-4-(3'-methoxy-4					methoxy-4'-

In Re Application No.: Atty. Docket: U.S. Department of **FORM PTO-1449** Commerce 0492479-0033 10/762,965 Patent and Trademark Office (REV. 8-83) Applicant: Xudong HUANG Filing Date: Group: INFORMATION DISCLOSURE STATEMENT January 22, 2004 1618 (Use several sheets if necessary) hydroxystyryl) benzene for PET imaging of amyloid deposits", Journal of Labelled Compounds and Radiopharmaceuticals, 2002, 45(8): 647-664 EXAMINER **DATE CONSIDERED** (A)nO) EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.